BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 13.00 Lakhs

Name of work:-Maintenance of power pumps in ward no-03

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 7.5HP 20 stage ATALANTA<SUGUNA<CRI,KIRLOSKAR and other Equivalent pumps PWD SR 2016-2017 P.No.XXXX11 Item No.24 including of all taxes.	No							
	7.5 HP /20 Stage:-Duomarvel Layout,Adityanagara		2				2.00		
							2.00	60400.00	120800.00
2	KSRB 13-3 6:Providing and fixing in trenches galvanized/ mild steel tubes(medium grade)50mm dia nominal bore with all fittings(earth work in trenches to be measured and paid for separately) including cost of all materials,labour charges,HOM of equipments and testing complete as per specifications.Specification No.KBS 13.2.14/13.6 Page No.90,Item no.13.15 PWD SR 2016-2017	Rmtr							
	Duo Marvel Layout,Adityanagara &AMS Extension	2	32	6.00			384.00		
		1	33	6.00			198.00		
							582.00	457.92	266509.44
	Basic Rate	432.00							
	Add Area Weightage @ 6%	25.92							
	Total RS	457.92							
3	GI Hose Collers p.no xxxix PWD SR 2016-2017.	No.							
		2	33				66.00		
		1	34				34.00		
							100.00	103.00	10300.00
4	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph. 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. (PRED Bangalore circle se Approved date 30.07.2010 15HP TO 30HP star Delta stater)	No.							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09)	No	30				30.00	10000.00	300000.00
	Duo Marvel Layout,Adityanagara &AMS Extension		3				3.00	3000.00	9000.00
6	Providing and fixing Clamp set etc as per specifications and directions of the engineer incharge of work.(As per Market rate)	No.	2				2.00	600.00	1200.00
7	Supplying and laying of 1.1kv LTUG cable having aluminium condutor PVC insulated,extruded inner shethed, galvnised steel strip (except 2cx10sq mm wire armoured)confirming to IS-3975:1990(No.of strip indicated in GTP)&extruded pvc outer sheathed armoured cable with specified IS-1554 Part-1:1988 &confirming to GTP of Group-A P.No.55/I No.7.4.4 4 core 16sqmm kpwd electrical SR 2014-2015.	Mtr							
			8	30.00			240.00	140.40	33696.00
8	Labour charges for laying of 1.1 K.V class UG cable in existing trench GI Pipe / stone ware pipe /on wall /on pole as required.in existing trench/duct P.no.6/I no7.8.1 6 Sqmm to 16 sqmm)KPWD Electrical SR 2014-2015.	Mtr							
			8	30.00			240.00	10.80	2592.00
9	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 62/ I. No. 7.9.3 KPWD Electrical SR 2014-2015.	Mtr							
	For Cutting Road Surface		8	25.00			200.00	85.00	17000.00
10	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-2015.	Mtr							
	40mm dia GI pipe		15	4.00			60.00	345.00	20700.00
11	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62/ I No. 7.13.1 KPWD Electrical SR 2014-2015.	No.							
			10				10.00	260.00	2600.00
12	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of soil and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No55.i no.7.1)KPWD Electrical SR 2014-2015.	No							
			10				10.00	2727.00	27270.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.10/13.13 P.No. 93/1 No. 13.55 PWD SR 2016-2017.	No							
	Basic Rate	1496.00	3				3.00	1585.76	4757.28
	Add Area Weightage @ 6%	89.76							
	Total RS	1585.76							
14	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc , complete for 50mm dia P. No. 95/ 1. No. 13.81.3 PWD SR 2016-2017.	No							
	50mm dia		3				3.00	227.90	683.70
	Basic Rate	215.00							
	Add Area Weightage @ 6%	12.90							
	Total RS	227.90							
15	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete p no xxxix PWD SR 2016-2017	No							
	50mm dia		3	4.00			12.00	104.30	1251.60
16	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications(p no109/s.no17.15.1 kpwd electrical sr 2014-2015)	No							
			20				20.00	211.00	4220.00
17	Supplying and fixing miniature circuit breaker on existing MCB distribution boards using necessary fixing materiasls and 'c' Type curve,indicator ON OFF,energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32amps Group A TPN P No.47 /1 No.6.16.5 KPWD SR 2014-2015.	No							
			20				20.00	1547.00	30940.00
18	Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc.. complete P.no.49.1 No.6.40.2 KPWD Electrical SR 2014-2015.	Sq Cm							
			44	120.00	60.00		316800.00		
			22	360.00	25.00		198000.00		
							514800.00	0.33	169884.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers.P No.45/s.no .6.7.3 KPWD Electrical SR 2014-2015.	No.							
	63 Amps		20				20.00	234.00	4680.00
20	Earth work excavation for water Supply & Sanitary lines, Electreical conduits either in pits or trenches (for trenches from 601mm to 1500mm width) as per drawing and technical specification, inclduing setting out, construction of shoring strutting barricating, danger lighting, bracing, removal of stupms and other deleterious matter dressing of sides and bottom inclduing backfilling the excavation earth to the extent required and utilising the remaining earth locally for the work in the follwing classifications by mechcanical means PRED SR 2012-2013(Item No 1.50,Page No 02) (In ordinary soil/hard soil-(depth upto 3m)	Cum							
			1	750.00	0.60	0.90	405.00		
							405.00	40.28	16313.40
	Basic Rate	38.00							
	Add Area Weightage @ 6%	2.28							
	Total RS	40.28							
21	Providing and instalation at site of works P.V.C Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.(Page No.15 item No 3.4.2 PREd SR 2012-2013).	Rmtr							
	75mm Dia 6 KSC		1	750.00			750.00	123.00	92250.00
	Basic Rate	123.00							
22	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, consolidation in layers of 15cm thick including disposing of the surplus earth with a lead of 200 meters etc as per specifications.(P. No.3/ Item No. 1.6/ PRED SR 2012-13)	Cum							
			Qty. Vide Item No. 20				405.00	64.66	26187.30
	Basic Rate	61.00							
	Add Area Weightage @ 6%	3.66							
	Total RS	64.66							
23	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 (P.89/1.13.37 PWD SR - 2016-17)	Each							
			12				12.00	2175.12	26101.44
	Basic Rate	2052.00							
	Add Area Weightage @ 6%	123.12							
	Total RS	2175.12							
								TOTAL RS	1188936.16
								KRIDL Charges 8%	95114.89
								Labour cess 1%	11889.36

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
									4057.59
26	Miscellaneous and Unforeseen Charges								(761.51)
		L/S							
								Total RS	1300000.00

(Rupees Thirteen lakhs only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of, PRED 2016-17 & SE-RDED approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 03

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Sattellite Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Division

Administrative Approval
Accorded For 13.00 lakh Rs
Head of A/C..P3110...
CER NO :..70.. **Dt:**..15.06.17

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 13.00 Lakh
Rupees Thirteen Lacs only
Under P-3110-2016-17
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo CE ( ) No. /9/
Dt. CE/YNK/TS/07/2017-18
Dated 15.6.17 Rs. 13.00 lacs
Executive Engineer